



Coanda Scientific Events

Partners:

SC Carfil SA, Brasov



Romanian Committee for the History and
Philosophy of Science and Technology (CRIFST) of
the Romanian Academy, Bucharest



The 12th Edition of the International Conference
*Redefining Community in
Intercultural Context RCIC'25*
Military Ethics in the Age of Hybridity

The 26th Edition of the International Conference AFASES, 2025
*Scientific Research and
Education in the Air Force*

BRASOV

22-24 May, 2025



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CRIFST

Thursday, 22nd May, 2025

19:00 Welcome cocktail at “Henri Coandă” Air Force Academy, Officers’ Dining Facility

Friday, 23rd May, 2025

9:00 – 10:00 Registration of participants – “Henri Coandă” Air Force Academy’s Auditorium

10:00 - 10:15 CONFERENCE OPENING – “Henri Coandă” Air Force Academy’s Auditorium

Brig Gen(AF) Assoc Prof **Marius ȘERBESZKI, PhD** (Rector of “Henri Coandă” Air Force Academy)

10:15 - 11:45 PLENARY LECTURES - “Henri Coandă” Air Force Academy’s Auditorium

General (Ret) **Ștefan DĂNILĂ** (Former Chief of General Staff/ Integrated Intelligence Defence and Security Solutions, Bucharest, Romania)

Nick McCARTER (Chief Executive Officer, Chartis Federal/ Periscope Aviation, McLean, VA, United States of America)

Ella Magdalena CIUPERCĂ (National Institute for Research and Development in Informatics, ICI, Bucharest, Romania)

11:45 - 12:00 Coffee Break

12:00 - 13:30 PARALLEL PANELS

13:30 - 14:30 Lunch Break/ Officers’ Dining Facility

14:30 - 16:00 PARALLEL PANELS

16:15 - 17:30 PARALLEL PANELS

18:00 - 23:00 Conference Dinner, The Columns Hall, Officers’ Club

Saturday, 24th May, 2025

10:00 - 14:00 Guided tour. The Black Church, The First Romanian School

14:00 Departure of participants

Redefining Community in Intercultural Context RCIC'25

Military Ethics in the Age of Hybridity

RCIC '25 CONFERENCE PROGRAMME

Friday, 23rd May, 2025 12:00-13:30

ETHICS IN THE AGE OF HYBRIDITY / ROOM F.E.3-11	COGNITIVE WARFARE/ ROOM F.E.2-11
<p>Chairs: Aura CODREANU & Raluca LEVONIAN</p> <ol style="list-style-type: none"> 1. Mariselda TESSAROLO (University of Padua) – Ethics and the Spirit of the Times: Logic of the General vs. Logic of the Singular 2. Emanuele STOCHINO (University of Milan) – Evolution of Resilience and Hybridity in the Psycho-Social Field and Their Use in Certain Aspects of Armed Service Practice 3. Daniela Felicia ROMAN (Military Academy of the Armed Forces, Chişinău) – Military Ethics, Gender, and Warfare 4. Răzvan-Lucian ANDRONIC (“Henri Coandă” Air Force Academy, Braşov), Vasile MARINEANU, Iulian ȚĂRANU (Military Psychology Society, Bucharest), Ole BOE (The Norwegian Police University College, Oslo) – Methodologies for Assisting Veterans with Post-Traumatic Stress Syndrome in NATO Countries 5. Aura CODREANU (Regional Department of Defense Resources Management Studies, 'Carol I' National Defense Academy, Brasov) – Moral Disengagement in Contemporary Warfare. Ethical Implications of Remote and AI-driven Combat Technologies 6. Nicolae SFETCU (Romanian Committee for the History and Philosophy of Science and Technology, CRIFST, of the Romanian Academy, Bucharest) – The Ethics of Artificial Intelligence for Humanity: Risks and Challenges 	<p>Chairs: Ella CIUPERCĂ & Ioana LEUCEA</p> <ol style="list-style-type: none"> 1. Adrian LESENCIUC, Iasmina-Georgiana SAUCIUC (“Henri Coandă” Air Force Academy, Braşov), Agata IAGIEŢO-TONDERA (Military University of Technology, Warsaw)– <i>Nobody</i>: The Name behind Informational Blindness. The Russian Information Warfare in Ukraine 2. Ancuța RUSU (“Henri Coandă” Air Force Academy, Braşov) – Military Ethics in the Light of Cognitive Warfare 3. Diana SOARE (The National University of Political Studies and Public Administration, SNSPA, Bucharest) – European Defense and Current Hybrid Threats 4. Teodora-Ioana MORARU (“Mihai Viteazul” National Intelligence Academy, Bucharest) – Classifying Russian PSYOPS and Countermeasures. Implications for European Security 5. Cosmina NECULCEA (“Henri Coandă” Air Force Academy, Braşov) – The Role of Mass-Media in Ukraine War. Case Study: Kursk Incursion. 6. Ammar El BENNI (Romanian Senate, Bucharest) – War on Gaza Strip 2023-2024

COMMUNITIES AND INTERCULTURAL COMMUNICATION/ ROOM F.E.3-11	HYBRIDITY AND VIRTUAL COMMUNITIES/ ROOM F.E.2-11
<p style="text-align: center;">Chairs: Daniela NAGY & Răzvan ANDRONIC</p> <ol style="list-style-type: none"> 1. Adina-Elena BOCAI (“Mircea cel Bătrân” Naval Academy, Constanta) – Undermining Media Credibility, a Threat of National Security 2. Angela-Karina AVĂDĂNEI (“Mihai Viteazul” National Intelligence Academy, Bucharest), Adrian LESENCIUC (“Mihai Viteazul” National Intelligence Academy, Bucharest/ “Henri Coandă” Air Force Academy, Braşov) – Romanian-Hungarian Relations in Mixed Communities. A Case Study of Intercultural Communication Patterns in Sfântu-Gheorghe 3. Mihai VACARIU (Faculty of Journalism and Communication Sciences, University of Bucharest) – Manipulation and Disinformation in the 2024 Romanian Presidential Elections 4. Raluca LEVONIAN (“Ovidius” University of Constanţa, Constanţa, Romania) – Legitimation Strategies in EU Parliamentary Discourse on International Security 5. Tania MORARU-ZAMFIR (“Henri Coandă” Air Force Academy, Braşov) – On Some Semantic Properties of the Romanian “At/To” 6. Daniela NAGY (“Henri Coandă” Air Force Academy, Braşov) – What’s in a ‘Word’? Analyzing Military Acronyms, Abbreviations and Initialisms in the Context of Efficient Communication in English 	<p style="text-align: center;">Chairs: Ioana LEUCEA & Daniela Felicia ROMAN</p> <ol style="list-style-type: none"> 1. Ella-Magdalena CIUPERCĂ (National Institute for Research and Development in Informatics, ICI Bucharest), Veronica MIHALACHE (Independent researcher), Alexandru STOIAN (National Institute for Research and Development in Informatics – ICI Bucharest) - Fighting Online Harassment: A Double-Edged Sword of Emerging Technologies and Legal Frameworks 2. Carola FREY (The National School of Political Science and Public Administration, Bucharest) – AI: The Beast that Feeds the Beast in the Perfect Storm of Hybrid Warfare 3. Ioana LEUCEA (“Mihai Viteazul” National Intelligence Academy, Bucharest) – What About the Transition from Digital Era to Gutenberg Galaxy? 4. Mihai-Ştefan VĂCARU-SORA (“Mihai Viteazul” National Intelligence Academy, Bucharest) – From Totalitarian Legacy to Collective Security. A Constructivist and CLA-Based Study of Eastern NATO Countries 5. Ioana LEUCEA (“Mihai Viteazul” National Intelligence Academy, Bucharest) – Words, images and identities: competing for influence into the strategic communication realm. 6. Alexandru ALEXANDRU (The National School of Political Science and Public Administration, Bucharest) – The Role of Artificial Intelligence in Shaping Military Ethics amid Hybrid Threats: A Romanian Perspective on Conspiracy Theories and International Communication 7. Nicolae SFETCU (Romanian Committee for the History and Philosophy of Science and Technology, CRIFST, of the Romanian Academy, Bucharest) – Challenges and risks of Artificial Intelligence in Electronic Warfare

The 26th Edition of the International Conference AFASES, 2025

Scientific Research and Education in the Air Force

AFASES 2025 CONFERENCE PROGRAMME

Friday, 23rd May, 2025 12:00-13:30

MILITARY SCIENCES. HISTORY OF MILITARY SCIENCE & TECHNOLOGY / ROOM F.E.3-4	HUMANITIES & SOCIAL SCIENCES/ ROOM F.E.2-10
<p>Chairs: Tiberiu TĂNASE & Traian OSTAHE</p> <p>1. Sevladin STOYKOV, Ivo RADULOV, Zhivo PETROV (Rakovski National Defence College, Sofia) – The Role of the Rakovski National Defence College in Increasing the Resilience of the National Security System</p> <p>2. Traian OSTAHE (Romanian Committee for the History and Philosophy of Science and Technology, CRIFST, of the Romanian Academy, Bucharest) – Learned Lessons through Clausewitz Perspective</p> <p>3. Tiberiu TĂNASE, Camelia-Elena GOLEANU (Romanian Committee for the History and Philosophy of Science and Technology, CRIFST, of the Romanian Academy, Bucharest) – Information, a Weapon of War</p>	<p>Chairs: Marius MILANDRU & Cristian DRAGOMIR</p> <p>1. Angela-Karina AVĂDĂNEI (“Mihai Viteazul” National Intelligence Academy, Bucharest), Adrian LEENCIUC (“Mihai Viteazul” National Intelligence Academy, Bucharest/ “Henri Coandă” Air Force Academy, Braşov) – Hungarian Language Media in Romania: Setting Minority Perceptions of Russia’s War Against Ukraine</p> <p>2. Margarita GAVRILOVA (“Georgi Benkovski” Air Force Academy, Dolna Mitropolia) – Proactive Learning-Shifting Towards a More Innovative Higher Education</p> <p>3. Pavlin TSONEV (“Georgi Benkovski” Air Force Academy, Dolna Mitropolia) – Enhancing Student Assessment: a Dual-Method Approach</p> <p>4. Valya TSVETANOVA (“Georgi Benkovski” Air Force Academy, Dolna Mitropolia) – Framing Aerodynamic Terminology: a Linguistic Approach Preliminary Study </p> <p>5. Marius MILANDRU (“Henri Coandă” Air Force Academy, Braşov) – Implementation of Project Management within the Military Organization</p>

AERONAUTICAL AND ATMOSPHERIC SCIENCES [I]/ ROOM F.E.3-4	ENGINEERING AND APPLIED SCIENCES/ ROOM F.E.2-10
<p>Chairs: Vasile PRISACARIU & Danail DAMYANOV</p> <ol style="list-style-type: none">1. George-Răzvan BUICAN, Robert APREOTESEI (Transilvania University, Brasov) – Design and Experimental Evaluation of an Ion Wing Prototype2. George-Răzvan BUICAN, Alexandrina IVAȘCU, Andrei BENCZE (Transilvania University, Brasov) –Bio Composite Materials as a Sustainable Solution for Modern Industries3. Andrei BENCZE, George-Răzvan BUICAN (Transilvania University, Brasov) – Design Optimization Using FEM for Cargo Floor Strut4. Andrei BENCZE (Transilvania University, Brasov) – Study on the Use of 3D Printed Parts for Aircrafts and Drones5. Darius BOGHIEZ, George-Răzvan BUICAN (Transilvania University, Brasov) – Design and Experimental Evaluation of an Ion Engine Prototype6. Danail DAMYANOV (“Georgi Benkovski” Air Force Academy, Dolna Mitropolia) – Structural Analysis. The Malfunctions of the Gas Turbine Engine Ai-25TI7. Vasile PRISACARIU, Alexandru-Ioan CIUR, (“Henri Coandă” Air Force Academy, Brașov) – Aerodynamic Analysis Regarding the Flight Parameters of Modern Jet Trainers8. Alexandru-Nicolae TUDOSIE (University of Craiova), Elena-Elisa DRAGOMIR (In Flight Test Research and Innovation Center, Craiova), Daniel-Cristian DRAGOMIR (University of Craiova) – Automatic Control of a Supersonic Air Inlet with Variable Inner Cross-Section	<p>Chairs: Cornel ARAMĂ & Liviu GĂINĂ</p> <ol style="list-style-type: none">1. Gabriel ANASTASIU (“Dragos Voda” National College, Câmpulung Moldovenesc), Andreea Valentina ANASTASIU (Polytechnic University, Cluj-Napoca), – Aspects of Hamming Encryption Using Raspberry PI Pico2. Cornel ARAMĂ (“Henri Coandă” Air Force Academy, Brașov) – A Study on Methods to Apply the Energy Conservation Theorem in the Investigation of Traffic Accidents Using Detailed Breakdown of Energies3. Nicolae CONSTANTIN, Anișor NEDELCU (Transilvania University, Brasov) – Enhancing Flood Response in Romania: The Role of AI and Integrated Alarm Systems4. Andrei LUCHIAN (Transilvania University, Brasov) – Cybersecurity in Airports – Challenges, Technologies, and Protection Strategies for Critical Infrastructure5. Liviu GĂINĂ, Alin MECLEA (“Henri Coandă” Air Force Academy, Brașov) – Energy Independence: An Essential Pillar for Critical Infrastructure Resilience

Friday, 23rd May, 2025 16:15-17:30

AERONAUTICAL AND ATMOSPHERIC SCIENCES [II]/ ROOM F.E.3-4	AERONAUTICAL AND ATMOSPHERIC SCIENCES [III]/ ROOM F.E.2-10
<p style="text-align: center;">Chairs: Ionică CÎRCIU & Mihai PRICOP</p> <p>1. Ionică CÎRCIU (“Henri Coandă” Air Force Academy, Braşov) – Versatility, Adaptability and Flexibility of Helicopter Armament Variants</p> <p>2. Constantin Adrian MIHAI, Romulus LUNGU (Polytechnic University, Bucharest) – Nonlinear Dynamics and Adaptive Control Using The Dynamic Inversion Concept and Neural Networks for a Guidance Gyrosystem (GG) With One Gyroscope and Two Suspension Gimbals (GAR) Part 1. Obtaining the Nonlinear Dynamic Model</p> <p>3. Constantin Adrian MIHAI, Romulus LUNGU (Polytechnic University, Bucharest) – Nonlinear Dynamics and Adaptive Control Using The Dynamic Inversion Concept and Neural Networks for a Guidance Gyrosystem (GG) With One Gyroscope and Two Suspension Gimbals (GAR) Part 2. Adaptive Control Architecture Design and Validation</p> <p>4. Mihai PRICOP, Ionuţ BUNESCU, Vlăduţ HOTHAZIE, Mihăiţă Gilbert STOICAN, Leonida NICULESCU (“Elie Carafoli” National Institute for Aerospace Research and Development, Bucharest) – Impact Theory Applied for Hypersonic Vehicles</p> <p>5. Mihai PRICOP, Ionuţ BUNESCU, Vlăduţ HOTHAZIE, Mihăiţă Gilbert STOICAN (“Elie Carafoli” National Institute for Aerospace Research and Development, Bucharest) – Identification of Optimal Dihedral Angle of an X-Wing Loitering Munition</p>	<p style="text-align: center;">Chairs: Adrian PITICAR & Eduard MIHAI</p> <p>1. Adrian PITICAR, Alexandru TUDOR (“Henri Coandă” Air Force Academy, Braşov) – Increase in freezing level height in Romania over the 1980-2024 period</p> <p>2. Marilena-Ioana ZUZEAC, Bogdan ANTONESCU (University of Bucharest) – The Climatology of Aviation Hazards Impacting Romanian Airports</p> <p>3. Vasile PRISACARIU, Răzvan MĂNESCU (“Henri Coandă” Air Force Academy, Braşov) – Considerations for of Atmospheric and Environmental Data Acquisition with Quadcopter UAV</p> <p>4. Simona ANDREI, Mariana ADAM, Alexandru DANDOCSI (National Institute for Research and Development in Optoelectronics - INOE 2000) – The use of CAMS products for supporting the atmospheric monitoring and air quality assessment in Romania.</p> <p>5. Marius TUTUNEA (“Henri Coandă” Air Force Academy, Braşov) – Research of the Ground Mobile UAV Stations Used in Search and Rescue Missions</p> <p>6. Eduard MIHAI (“Henri Coandă” Air Force Academy, Braşov) – The Future of Air Navigation in the Context of Evolving Artificial Intelligence</p>